



ENTOMOLOGY

Editor

Don Wright Jr., BU 243



As mentioned in the last issue of *Biophilately*, I will be using a modern arrangement of Lepidoptera Families, Subfamilies and Species for this listing in the future. The initial mention of this was in *Biophilately*, Vol. 53, December 2004, where I asked for comments pro or con. I received only one comment and that was to the effect that "I will have to re-arrange all my album pages if you do this." That, too, is my biggest problem with any modernization of nomenclature, but it will give me something to do on the long winter nights to come. The new arrangement appears at the end of this listing.

AUSTRALIA	2006, June 1 (Postie Kate Delivers the Mail).		
e 50c	Delivery by van, BUTTERFLIES, birds		Lepidoptera
BERMUDA	2006, June 22 (Made in Bermuda – Part 4).		
925 35c	<i>Apis mellifera</i> L., WESTERN HONEYBEE, Honey, jar, BEES API	Apinae	
BOSNIA-HERZEGOVINA	2006, April 20 (Fauna & Flora).		
1.50m	<i>Formica rufa</i> L., RED WOOD ANT		FOR Formicinae
CHINA	1993, September 21 (33 rd Apicultural Conference) (Correction as per FDC)		
2463-66 10, 15, 20f, \$2	<i>Apis cerana</i> Enderlein, EASTERN or ASIAN HONEYBEE API	Apinae	
CHINA (TAIWAN)	2006, May 25.		
\$5	<i>Pyrocoelia analis</i> Fabr.,	LAM	Lampyrinae
\$5	<i>Diaphanes citrinus</i> Olivier, ORANGE FIREFLY,	LAM	Lampyrinae
\$5	<i>Diaphanes niveus</i> Jeng & Lai, SNOW FIREFLY,	LAM	Lampyrinae
\$5	<i>Diaphanes formosus</i> Olivier, FORMOSAN FIREFLY,	LAM	Lampyrinae
	2006, August 16.		
\$5	<i>Crocothemis servilia servilia</i> Drury, SCARLET SKIMMER LIB	Sympetrinae	
\$5	<i>Orthetrum pruinosum neglectum</i> Rambur,	LIB	Libellulinae
\$12	<i>Diplacodes trivialis</i> Rambur,	LIB	Sympetrinae
\$12	<i>Orthetrum sabina sabina</i> Drury,	LIB	Libellulinae
CUBA	2005 (50 th Anniversary of Europa Stamps, single & s/t of 4).		
1.30p	<i>Apis mellifera</i> L., WESTERN HONEYBEE. Spain #1126 s-o-s API	Apinae	
ESTONIA	2006, May 3 (Europa/Integration).		
6.50kr/42c	<i>Apis mellifera</i> L., W. HONEYBEE	API	Apinae
	People in honeycomb design		
FINLAND	2006, May 4 (Children Playing).		
1 st Class	No insect. Stylized BUTTERFLIES on inside & outside of bklt cover	Lep.	
GIBRALTAR	2005, October 21 (Christmas Angels).		
1031 40p	Stylized BUTTERFLY. Also 1033a, in s/t of 1029-33		Lepidoptera
HUNGARY	2006, May 19 (Greetings/Love).		
52ft	Rose & BUTTERFLY		Lepidoptera
JAPAN	2006.		
50y	<i>Luehdorfia japonica</i> Leech, With flowers	PAP	Parnassiinae

JAPAN (contd.)		2006, May 19 (Gifu Prefecture/National Afforestation Campaign).		
50y		GOFUCHO BUTTERFLIES, milk vetch, Mt. Norukuradake	Lepidoptera	
KOREA, NORTH	1997 (From Paul Freytag)			
80ch	Woman in uniform.			
	Margin: BUTTERFLY & 2 small <i>Apis mellifera</i> L.,	API	Apinae	
	1998, December 20 (Tale of Chum Hyang) (From Paul Freytag)			
2x (40, 160, 250ch)	Margin: 3 <i>Apis mellifera</i> L., WESTERN HONEYBEE, API		Apinae	
	2006 (Orchids & Butterflies)			
2 x s/t of 6			Lepidoptera	
	2006, April 15 (90 th Anniversary Birth of Kim Il Sung).			
3w	<i>Apis mellifera</i> L., WESTERN HONEYBEE & flowers	API	Apinae	
LIBYA	1992, February 17 (These were submitted by Paul Freytag).			
1441-42 75 & 80d	Stamp on stamp, BUTTERFLIES on both stamps		Lepidoptera	
	1994, December 1 (Peoples Authority Declaration).			
e-f 6x80d	BUTTERFLIES		Lepidoptera	
	1995, Septemb 10 (Scouting, strip of 3).			
a-b 2x50d	BUTTERFLIES		Lepidoptera	
	1997, March 15 (Scouting & Philately).			
a-c 3x250d	BUTTERFLIES		Lepidoptera	
	1997 (Children's Day, s/t of 6).			
c 400d	BUTTERFLY		Lepidoptera	
	1998 (Arab Bee Union).			
250, 300, 400d	<i>Apis mellifera</i> L., WESTERN HONEYBEE	API	Apinae	
	1998 (Hands Shaking).			
3x100d	<i>Apis mellifera</i> L., WESTERN HONEYBEE	API	Apinae	
	1998 (International Day for the Handicapped & Scouts, s/t of 16).			
a 100d	BUTTERFLY		Lepidoptera	
	1999, Sepember 1 (30 th Anniversary of the Revolution).			
k 100d	2 different BUTTERFLIES		Lepidoptera	
MALAYSIA	1996, December 2 (Additions from Paul Freytag).			
604c 50c	<i>Attacus atlas</i> L., ATLAS MOTH	SATU	Saturniinae	
Margin:	L: PRAYING MANTIS,		Mantidae	
	R: BUTTERFLY,		Pieridae	
	UR: STINK BUG,		Pentatomidae	
	LR: BEETLE,		Chrysomelidae	
\$1	2005 (Batik Designs)			
MAURITIUS	Stylized BUTTERFLY		Lepidoptera	
\$2	2006, June 5 (Ecology).			
	Bird with LOCUST in beak, illustrating biological control		Acrididae	
MEXICO	2002, February 18 (Perf 14) (Corrections from Alan Hanks)			
2262 6p	L: <i>Danaus plexippus</i> L., MONARCH, female	NYM	Danainae	
	R: <i>Papilio polyxenes</i> Fabr., BLACK SWALLOWTAIL, larva	PAP	Papilioninae	
	UL: <i>Morpho peleides montezuma</i> Guenée, female,	NYM	Morphinae	
	Center: <i>Phocides lilea</i> Reakirt,	HES	Pyrginae	
	Low " : <i>Papilio esperanza</i> Beutelspacher,	PAP	Papilioninae	

MEXICO	(contd.)	2003.			
2262a	6p	Same as #2262, but perf 13x13½ 2005.			
2409	2p	Same as #2262a			
2436	30.50p	Same as #2262a			
2452	50c	Same as #2262a			
MONTENEGRO		2006, January 3 (50 th Anniversary of Europa Stamps).			
129c	2€	<i>Apis mellifera</i> L., WESTERN HONEYBEE. #102 s-o-s	API	Apinae	
MONTSERRAT		2006, April 1 (30 th Anniversary of Philatelic bureau - #1058 optd).			
	70c	<i>Junonia evarete</i> Cramer, CARIBBEAN BUCKEYE.	NYM	Nymphalinae	
		2006, May 2 (Moths [!] of the World)			
a	\$2.30	<i>Hyalophora cecropia</i> L., CECROPIA or ROBIN MOTH	SATU	Saturniinae	
b	\$2.30	<i>Chrysiridia rhiphearia</i> Hubner, MADAGASCAN SUNSET MOTH	URA	Uraniinae	
c	\$2.30	<i>Nymphalis io</i> L., PEACOCK. Label: <i>Saturnia pyri</i>	NYM	Nymphalinae	
d	\$2.30	<i>Alcides metaurus</i> Hopffer, ZODIAC MOTH. Label: <i>zodiaca</i>	URA	Uraninae	
	4x\$2.30	LL: <i>Zygaena filipendulae</i> L., 6-SPOT BURNET MOTH LML: <i>Attacus atlas</i> L., ATLAS MOTH LMR: <i>Papilio machaon</i> L., OLD WORLD S'TAIL LR: <i>Alcides metaurus</i> Hopffer, ZODIAC MOTH	ZYG	Zygaeninae	
		<i>Hyles lineata</i> Fabr., WHITE-LINED SPHINX	SATU	Saturniinae	
	\$6	Margin: HAWKMOTH	PAP	Papilioninae	
			URA	Uraniinae	
NAMIBIA		2006.	SPH	Macroglossinae	
		\$3.10 on \$2.70 <i>Apis mellifera scutellata</i> Lepeletier. #1030 surcharged		Sphingidae	
NEPAL		2006 (Bio-Diversity).			
a	10r	<i>Teinopalpus imperialis</i> Hope, KAISER-I-HIND	PAP	Papilioninae	
d	10r	<i>Dicranocephalus wallichi</i> Hope,	SCA	Cetoniinae	
NEW ZEALAND		2006, May 3 (Greetings – Buzzy Bee).			
b	45c	Stylized <i>Apis mellifera</i> L., WESTERN HONEYBEE	API	Apinae	
PAPUA NEW GUINEA		2005, September 21 (New data).			
1192	3k	<i>Ornithoptera</i> sp., on Oro Province flag	PAP	Papilioninae	
ST. THOMAS & PRINCE IS.		2003 (Bangkok 2003/Mushrooms).			
1494a-f	1000-15,000d	<i>Apis mellifera</i> L., WESTERN HONEYBEE	API	Apinae	
1498	38,000d	Same. Also in margin 2003 (Mushrooms & Butterflies)			
1495a	1000d	<i>Papilio demoleus</i> L., LIME BUTTERFLY	PAP	Papilioninae	
1495b	2000d	<i>Libythea geoffroyi</i> Godart, GEOFFROY'S SNOUT B'FLY	NYM	Libytheinae	
1495c	3000d	<i>Catonephele numilia</i> Cramer, GRECIAN SHOEMAKER	NYM	Biblidinae	
1495d	5000d	<i>Doxocopa cherubina</i> C&R Felder, BLUE-GREEN REFLECTOR	NYM	Apaturinae	
1495e	6000d	<i>Dione juno</i> Cramer, SILVER SPOT,	NYM	Heliconiinae	
1495f	15000d	<i>Philaethria dido</i> L., SCARCE BAMBOO PAGE	NYM	Heliconiinae	
1499	38000d	Same			
EL SALVADOR		1999, June 30 (Bats) (Info from Glen Gerner & Paul Freytag).			
1510	1.50col	Bat eating a MANTIS		Mantodea	
SAN MARINO		2006, June 19 (Europa/Integration).			
	45c	BUTTERFLY with baby's head, by Sara Santolini		Lepidoptera	

SIERRA LEONE	2006 (Children's Art).		
2840d	2000Le	INSECT & orange lizard	
SLOVAKIA	2006, May 31 (Children).		
10k		Flower, flying INSECTS	
SLOVENIA	2005 (Like earlier issues, but smaller).		
630	5t	<i>Rhagoletis cerasi</i> Loew, EUROPEAN CHERRY FRUIT FLY	Tephritidae, Trypetinae
633	10t	<i>Anthonomus pomorum</i> L., APPLE BLOSSOM WEEVIL	CUR Anthonominae
636	A (48t)	<i>Cacopsylla pyricola</i> Forster, PEAR PSYLLA	Psyllidae, Psyllinae
639	50t	<i>Myzus persicae</i> Sulzer, GREEN PEACH APHID	Aphididae
642	B (57t)	<i>Bactrocera oleae</i> Gmelin, OLIVE FRUIT FLY	Tephritidae, Dacinae
645	50t	<i>Operophtera brumata</i> L., WINTER MOTH	GEO Larentiinae
		2006, May 19 (Greetings).	
C		<i>Coccinella septempunctata</i> L., 7-SPOTTED LADYBUG Also in margins	COC Coccinellinae
		2006, May 19 (Painted Beehive Panel IV).	
D		<i>Apis mellifera</i> L. Boy & girl fighting with hay rake & hay fork	API Apinae
THAILAND	2006, May 27 (Washington 2006 emblem in margin of s/t of 2 each of #2176a-d)		
a	5b	<i>Coccinella transversalis</i> Fabr.,	COB Coccinellinae
b	5b	<i>Chrysocroa buqueti rugicollis</i> Saunders,	BUP Chrysocroinae
c	5b	<i>Sagra femorata</i> Drury,	CHR Sagrinae
d	5b	<i>Chrysocroa maruyamai</i> Akiyama,	BUP Chrysocroinae
		Top margin: <i>Coccinella septempunctata</i> L., 7-SPOTTED LADYBUG	COB Coccinellinae
		LL margin: LADYBUG	Coccinellidae

Bumblebee Identification – Guide to British Bumblebees (and European ones)

Go to www.nhm.ac.uk/research-curation/projects/bombus/bumblebeeid.html for a one-page color chart that identifies the six common bumblebees by the arrangement of the colored stripes on both queens/workers and males. The six species of *Bombus* are *pascuorum*, *lapidarius*, *pratorum*, *terrestris*, *lucorum* and *hortorum*.

The following is the butterfly Family and Subfamily arrangement as shown in Wahlberg (2005) at www.zoology.su.se/research/wahlberg/.

Family Hesperiidae – Subfamilies Pyrrhopyginae, Coeliadinae, Pyrginae, Heteropterinae, Hesperiinae

Family Papilionidae – Subfamilies Baroniinae, Parnassiinae, Papilioninae

Family Pieridae – Subfamilies Pseudopontinae, Dismorphiinae, Pierinae, Coliadinae

Family Riodinidae – currently there is some question as to whether this should be a subfamily of Lycaenidae but for the time it is being kept as a family

Family Lycaenidae – Subfamilies Lipteninae, Poritiinae, Liphyrinae, Miletinae, Theclinae, Curetinae, Polyommatinae, Lycaeninae

Family Nymphalidae – Subfamilies Libytheinae, Danainae, Charaxinae, Morphinae, Satyrinae, Heliconiinae, Limenitidinae, Cyrestinae, Biblidinae, Apaturinae, Nymphalinae, Calinaginiæ.

The last has yet to appear on stamps.

The biggest changes have been in Nymphalidae, where Danaidae, Apaturidae, Morphidae, Satyridae and Heliconiidae have been reduced to subfamilies of Nymphalidae. Additionally, Acraeidae, Argynninae and *Cethosia* have been moved into Heliconiinae. Ithomiidae has been moved into Danainae. Amathusiidae and Brassolidae have been moved into Morphinae. Eurytelinae has become Biblidinae. See below for a list showing which genera fall under which subfamily.

BUTTERFLY TAXONOMY* FOR Biophilately - 2006

The following is a list of the genera that have appeared on stamps

Family HESPERIIDAE

Pyrrhopyginae – *Elbella, Jemadia, Pyrrhopyge*

Coeliadinae – *Badamia, Choaspes, Coeliades, Hasora, Pyrrhocochalcia*

Pyrginae – *Abantis, Achalarus, Astraptes, Capila, Chaetocneme, Chiomara, Chiooides, Eagris, Epargyreus, Ephyriades, Euschemon, Heliopetes, Netrocoryne, Phareas, Phocides, Polygonus, Pyrgus, Satarupa, Spialia, Urbanus*

Heteropterinae – *Carterocephalus, Heteropterus, Lepella, Leptalina, Metisella*

Hesperiinae – *Anthoptus, Atalopedes, Borbo, Calpodes, Entheus, Gangara, Hesperia, Holguinia, Hylephila, Iton, Oarisma, Ochlodes, Polites, Polytmis, Pyrrhocelles, Pyrrhopygopsis, Xanthodisca, Zophopetes*

Megathyminae - *Megathymus*

Family PAPILIONIDAE

Baroniinae – *Baronia*

Parnassiinae – *Allancastria, Archon, Bhutanitis, Luehdorfia, Parnassius, Sericinus, Zerynthia*

Papilioninae – *Atrophaneura, Battus, Cressida, Euryades, Eurytides, Graphium, Iphiclides, Lamproptera, Meandrusa, Neographium, Papilio, Parides, Teinopalpus, Troides* (*Troides* includes *Ornithoptera* & *Trogonoptera*)

Family PIERIDAE

Pseudopontinae – *Pseudopontia*

Dismorphiinae – *Dismorphia, Leptidea*

Pierinae – *Anthocharis, Aporia, Appias, Archonias, Ascia, Belenois, Catasticta, Cepora, Colotis, Delias, Eroessa, Eronia, Euchloe, Gideona, Hebomoia, Hesperocharis, Ixias, Leodonta, Leptophobia, Leptosia, Melete, Mylothris, Nepheronia, Pareronia, Pereute, Pieriballia, Pieris, Pinacopteryx, Pontia, Prioneris, Saletara, Tatochila, Zegris*

Coliadinae – *Anteos, Aphrissa, Catopsilia, Colias, Dercas, Eurema, Gonepteryx, Kricogonia, Nathalis, Phoebeis, Zerene*

Family RIODINIDAE – *Abisara, Amarynthis, Ancy luris, Apodemia, Brachyglenis, Calephelis, Calliona, Chorinea, Dysmathia, Dodona, Echenais, Emesis, Hamearis, Helicopis, Hypophyla, Lasaia, Lucillella, Lyropteryx, Melanis, Menander, Mesene, Mesophthalma, Mesosemia, Notheme, Nymphidium, Nymula, Orimba, Paralaxita, Pheles, Polystichtis, Rhetus, Semomesia, Stalachtis, Symmachia, Syrmatica, Themone, Theope, Uraneis*

Family LYCAENIDAE

Lipteninae – *Aethiopana, Alaena, Citrinophila, Cooksonia, Epitola, Hewitsonia, Liptena, Mimacraea, Pentila, Telipna, Toxochitona*

Poritiinae – *Poritia*

Liphyrinae – *Liphyra*

Miletinae – *Megalopalpus*

Theclinae – *Allosmaitia, Amblypodia, Aphnaeus, Arcas, Argiolaus, Arhopala, Artipe, Artopoetes, Atlides, Axiocerses, Bindahara, Bithys, Callophrys, Calycopis, Camena, Capys, Cheritra, Chlorostrymon, Chrysoritis, Chrysozephyrus, Cycnus, Deudorix, Dindymistes, Drina, Drupadia, Electrostrymon, Eumaeus, Evenus, Hemiolaus, Hypaurotis, Hypochrysops, Hypolycaena, Hypostrymon, Iolana, Iolaus, Lipaphnaeus, Loxura, Myrina, Ogyris, Panthiades, Paraphnaeus, Parrhasius, Poecilmitis, Pseudalestis, Pseudalmenus, Pseudolycaena, Quercusia, Rapala, Rekoa, Ritra, Satyrium, Shirozua, Sithon, Spindasis, Strymon, Tajuria, Thecla, Thermoze phyrus, Tomares*

Curetinae – *Curetis*

Polyommatiniae – *Agriades, Agrodiaetus, Albulina, Anthene, Aricia, Brep hicidium, Cacyreus, Castalius, Catochrysops, Celastrina, Cupido, Cupidopsis, Danis, Euchrysops, Everes, Freyeria, Glauco psyche, Hemiargus, Jamides, Lampides, Lepidochrysops, Leptotes, Luthrodes, Lycaeides, Lycaenopsis, (Lysandra now included in Polyommatus), Maculinea, Meleageria, Nacaduba, Neolysandra, Petrelea, Philotes, Phlyaria, Plebejus, Plebicula, Polyommatus, Syntarucus, Tarucas, Udara, Uranothauma, Vacciniina, Zizeeria, Zizina, Zizula*

Lycaeninae – *Heliophorus, Heodes, Lycaena, Palaeochrysophanus*

Family NYMPHALIDAE

Libytheinae – *Libythea, Libytheana*

Danainae – *Amauris, Anetia, Callithomia, Ceratinia, Danaus, Dircenna, Elzunia, Euploea, Eutresis, Godyris, Hypoleria, Hypomenitis, Hypothyris, Idea, Ideopsis, Ithomia, Lycorea, Mechanitis, Melinaea, Methona, Napeogenes, Oleria, Parantica, Pteronymia, Thyridia, Tirumala, Tithorea*

Charaxinae – *Agrias, Anaea, Archaeoprepona, Charaxes, Consul, Euxanthe, Hypna, Memphis, Noreppa, Palla, Polygrapha, Polyura, Prepona, Prothoe, Siderone, Zaretis*

Morphinae – *Amathusia, Antirrhea, Bia, Brassolis, Caerois, Caligo, Dynastor, Eryphanis, Faunis, Hyantis, Melanocyma, Morpho, Selanophanes, Stichophthalma, Taenaris, Thaumantis, Thauria, Xanthotaenia, Zeuxidia*

Satyrinae – *Aeropetes, Aphantopus, Arethusana, Argyrophenga, Brintesia, Calisto, Cithaerias, Cercyonis, Chazara, Coenonympha, Coenyrta, Dingana, Dodonidia, Elina, Elymnias, Erebia, Eumenis, Euptychia, Geitoneura, Haetera, Heteronympha, Hipparchia, Junea, Karanasa, Kirinia, Lasiommata, Lethe, Lopinga, Maniola, Melanargia, Melanitis, Minois, Mycalesis, Neope, Oeneis, Oreixenica, Paralasa, Paralethe, Pararge, Paratisiphone, Pedaliodes, Penthema, Physcaneura, Pierella, Pseudochazara, Pyronia, Ragadia, Taygetis, Tetraphlebia, Tisiphone, Torynensis, Ypthima, Zipaetis*

Heliconiinae – *Acraea, Actinote, Agraulis, Argynnis, Argyreus, Argyronome, Bematistes, Boloria, Brenthis, Cethosia, Childrena, Cirrochroa, Clossiana, Cupha, Dynamine, Dione, Dryadula, Dryas, Eueides, Euptoieta, Fabriciana, Heliconius, Issoria, Mesoacidalia, Pandoriana, Pareba, Phalanta, Philaethria, Podotricha, Speyeria, Terinos, Vagrans, Vindula*

Limenitidinae – *Adelpha, Batesia, Bebearia, Cymothoe, Euphaedra, Euptera, Euriphene, Euryphura, Euthalia, Hamadryas, Lebadea, Lexias, Limenitis, Moduza, Neptis, Panacea, Pantoporia, Parthenos, Phaedyma, Tanaecia*

Cyrestinae – *Cyrestis, Marpesia*

Biblidinae – *Biblis, Byblia, Callicore, Callithea, Catonephele, Diaethria, Epiphile, Eunica, Eurytela, Lucinia, Mesoxantha, Mestra, Myscelia, Neptidopsis, Nessaea, Perisama, Pyrrhogryra, Sevenia, Temenis, Vila*

Apaturinae – *Apatura, Apaturina, Apatuopsis, Asterocampa, Dilipa, Doxocopa, Euripus, Helcyra, Herona, Hestina, Rohana, Sasakia, Sephisa, Thaleropsis*

Nymphalinae – *Aglais, Anartia, Antanartia, Araschnia, Aterica, Atlantea, Baeotus, Catacroptera, Chlosyne, Colobura, Cynandra, Euphydryas, Doleschallia, Hamanumida, Historis, Hypanartia, Hypolimnas, Junonia, Kallima, Kallimoides, Kamilla, Mallika, Melitaea, Mynes, Mellicta, Nymphalis, Phciodes, Polydryas, Polygonia, Precis, Protogoniomorpha, Pseudacraea, Pseudoneptis, Rhopalpa, Salamis, Siproeta, Smyrna, Symbrentia, Tigridia, Timelaea, Vanessa, Vanessula, Yomo*

* This is the taxonomy for Families, Subfamilies and Genera as given by Wahlberg (2005) in www.zoologi.su.se/research/wahlberg/ and Markku Savela (2003) in www.nic.funet.fi/pub/sci/bio/life/insecta/lepidoptera/ditrysia/papilioidea/index.html.